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Multi-dimensional partitioning for massively pa database machines

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Abstract:
Harder, new requirements are appearing in the area of database syste
reached by parallel database systems during the past decade, due to t
performance and scalability characteristics should be currently maintai
by including more powerful processing tools. We present a general tec
declustering data in a parallel relational database using multi-dimensic
m-Q-tree indexes. We propose the multiattribute index structure m-Q-
general access method which permits to exploit the potential parallelis
operations, in addition to favor the execution of complex queries, inclu
of conditions on several attributes for one or more relations

Index Terms:
database machines   distributed databases   parallel machines   query processir
databases   software performance evaluation   tree data structures   access met
queries   data declustering   high performance   m-Q-tree indexes   massively pa
machines   multiattribute index structure   multidimensional partitioning   parallel
processing tools   requirements   scalability

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